

Docket No.: TRANS 8.0-037  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Fjield et al.

Application No.: 09/988,997

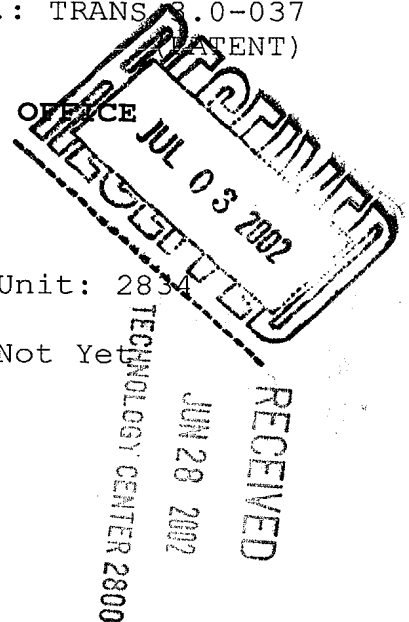
Filed: November 21, 2001

For: ULTRASOUND TRANSDUCER UNIT AND  
PLANAR ULTRASOUND LENS

Commissioner for Patents  
Washington, DC 20231

Group Art Unit: 2834

Examiner: Not Yet  
Assigned



**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

It is respectfully requested that the information listed on the enclosed form be made of record and considered with respect to the above-referenced U.S. patent application. A copy of each piece of information is enclosed. Submission of the present Information Disclosure Statement should not be taken as an admission that the cited information is legally available prior art or that the same are pertinent or material.

In the event that a first Office Action was mailed in connection with the above-identified patent application but has not yet been received by the undersigned, the Commissioner is hereby authorized to charge any fee owing to our Deposit Account No. 12-1095.

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, on the date shown below.

Dated: June 17, 2002

Signature: 

(Matthew B. Dernier)



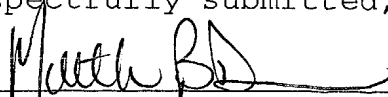
Application No.: 09/988,997

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Dated: June 17, 2002

Respectfully submitted,

By



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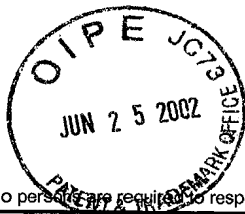
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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/988,997
				Filing Date	November 21, 2001
				First Named Inventor	Todd Fjeld
				Art Unit	2834
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	TRANS 3.0-037

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA	5,961,465-	10-05-1999	Kelly, Jr. et al.	
	AB	5,938,608-	08-17-1999	Bieger et al.	
	AC	5,873,845-	02-23-1999	Cline et al.	
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	AI	4,219,846-	08-26-1980	Auphan	
	AJ	4,207,901-	06-17-1980	Nigam	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	Qian Zhang, Peter A. Lewin and Philip E. Bloomfield, "PVDF Transducers - A Performance Comparison of Single-Layer and Multilayer Structures," IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, Vol. 44, No. 5, pp. 1148-1156, (Sept. 1997).	
	CB	Richard L. Goldberg and Stephen W. Smith, "Multilayer Piezoelectric Ceramics for Two-Dimensional Array Transducers," IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, Vol. 41, No. 5, pp. 761-771, (Sept. 1994).	
	CC	Qian Zhang and Peter A. Lewin, "Wideband and Efficient Polymer Transducers Using Multiple Active Piezoelectric Films," IEEE Ultrasonics Symposium Proceedings, Vol. 2, pp. 757-760, (Oct. 31 - Nov. 3, 1993).	
	CD	Geoffrey R. Lockwood, Daniel H. Turnbull, and F. Stuart Foster, "Fabrication of High Frequency Spherically Shaped Ceramic Transducers," IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, Vol. 41, No. 2, pp. 231-235, (March 1994).	
	CE	Qian Zhang, Peter A. Lewin and Philip E. Bloomfield, "Variable frequency multilayer PVDF transducer for ultrasound imaging," Proceedings of SPIE, Ultrasonic Transducer Engineering, Vol. 3037, pp. 2-12, (Feb. 27-28, 1997).	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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